

AMENDMENTS TO THE CLAIMS

Please amend Claims 22, 25, 28, 31, 34, and 37 and add Claims 40 through 45 as follows:

1-21. (Canceled)

22. (Currently Amended) A communication system comprising:

a first apparatus in a wireless network;

a second apparatus in a wired network; and

a communication apparatus that is arranged to communicate with the first apparatus and is arranged to communicate with the second apparatus,

wherein the communication apparatus includes a first communication unit, a decoding unit, an encoding unit, and a second communication unit,

wherein the first communication unit is adapted to receive first encoded video data encoded by a first video encoding system and transmitted from the first apparatus,

wherein the decoding unit is adapted to decode the first encoded video data received by the first communication unit into video data,

wherein the encoding unit is adapted to encode the video data from the decoding unit into second encoded video data using a second video encoding system, and

wherein the second communication unit is adapted to transmit the second encoded video data to the second apparatus.

23. (Previously Presented) A communication system according to claim 22, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to record the second encoded video data on a recording medium.

24. (Previously Presented) A communication system according to claim 22, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to display the second encoded video data.

25. (Currently Amended) A communication apparatus that is arranged to communicate with a first apparatus in a wireless network and is arranged to communicate with a second apparatus in a wired network, the communication apparatus comprising:

a first communication unit adapted to receive first encoded video data encoded by a first video encoding system and transmitted from the first apparatus;

~~a conversion unit adapted to convert the first encoded video data into second video data encoded by a second video encoding system;~~

a decoding unit adapted to decode the first encoded video data received by the first communication unit into video data;

an encoding unit adapted to encode the video data from the decoding unit into ~~the~~ second encoded video data using ~~the~~ a second video encoding system; and

a second communication unit adapted to transmit the second encoded video data to the second apparatus.

26. (Previously Presented) A communication apparatus according to claim 25, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to record the second encoded video data on a recording medium.

27. (Previously Presented) A communication apparatus according to claim 25, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to display the second encoded video data.

28. (Currently Amended) A communication method for a communication apparatus that is arranged to communicate with a first apparatus in a wireless network and is arranged to communicate with a second apparatus in a wired network, the communication method comprising the steps of:

receiving first encoded video data encoded by a first video encoding system and transmitted from the first apparatus;

decoding the first encoded video data received in the receiving step into video data;

encoding the video data from the decoding step into second encoded video data using a second video encoding system; and

transmitting the second encoded video data to the second apparatus.

29. (Previously Presented) A communication method according to claim 28, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to record the second encoded video data on a recording medium.

30. (Previously Presented) A communication method according to claim 28, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to display the second encoded video data.

31. (Currently Amended) A communication system comprising:

- a first apparatus in a wireless network;
- a second apparatus in a wired network; and
- a communication apparatus that is arranged to communicate with the first apparatus and is arranged to communicate with the second apparatus,

wherein the communication apparatus includes a first communication unit, a decoding unit, an encoding unit, and a second communication unit,

wherein the second communication unit is adapted to receive second encoded video data encoded by a second video encoding system and transmitted from the second apparatus,

wherein the decoding unit is adapted to decode the second encoded video data received by the second communication unit into video data,

wherein the encoding unit is adapted to encode the video data from the decoding unit into first encoded video data using a first video encoding system, and

wherein the first communication unit is adapted to transmit the first encoded video data to the first apparatus.

32. (Previously Presented) A communication system according to claim 31, wherein the first apparatus is an apparatus adapted to record the first encoded video data on a recording medium, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

33. (Previously Presented) A communication system according to claim 31, wherein the first apparatus is an apparatus adapted to display the first encoded video data, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

34. (Currently Amended) A communication apparatus that is arranged to communicate with a first apparatus in a wireless network and is arranged to communicate with a second apparatus in a wired network, the communication apparatus comprising:

a second communication unit adapted to receive second encoded video data encoded by a second video encoding system and transmitted from the second apparatus;

a decoding unit adapted to decode the second encoded video data received by the second communication unit into video data;

an encoding unit adapted to encode the video data from the decoding unit into first encoded video data using a first video encoding system; and

a first communication unit adapted to transmit the first encoded video data to the first apparatus.

35. (Previously Presented) A communication apparatus according to claim 34, wherein the first apparatus is an apparatus adapted to record the first encoded video data on a recording medium, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

36. (Previously Presented) A communication apparatus according to claim 34, wherein the first apparatus is an apparatus adapted to display the first encoded video data, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

37. (Currently Amended) A communication method for a communication apparatus that is arranged to communicate with a first apparatus in a wireless network and is arranged to communicate with a second apparatus in a wired network, the communication method comprising the steps of:

receiving second encoded video data encoded by a second video encoding system and transmitted from the second apparatus;

decoding the second encoded video data received in the receiving step into video data;

encoding the video data from the decoding step into first encoded video data using a first video encoding system; and

transmitting the first encoded video data to the first apparatus.

38. (Previously Presented) A communication method according to claim 37, wherein the first apparatus is an apparatus adapted to record the first encoded video data on a recording medium, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

39. (Previously Presented) A communication method according to claim 37, wherein the first apparatus is an apparatus adapted to display the first encoded video data, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

40. (New) A communication system according to claim 22, wherein the second communication unit is adapted to transmit the second encoded video data using an isochronous transfer.

41. (New) A communication system according to claim 25, wherein the second communication unit is adapted to transmit the second encoded video data using an isochronous transfer.

42. (New) A communication system according to claim 28, wherein the second communication unit is adapted to transmit the second encoded video data using an isochronous transfer.

43. (New) A communication system according to claim 31, wherein the second communication unit is adapted to receive the second encoded video data using an isochronous transfer.

44. (New) A communication system according to claim 34, wherein the second communication unit is adapted to receive the second encoded video data using an isochronous transfer.

45. (New) A communication system according to claim 37, wherein the second communication unit is adapted to receive the second encoded video data using an isochronous transfer.